

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Substitute for form 1449A/PTO				<i>Complete If Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/631,179
				Filing Date	July 31, 2003
				First Named Inventor	Joseph H. McCarthy, Jr.
				Art Unit	2882
				Examiner Name	
Sheet	1	of	3	Attorney Docket Number	NCI 010 P2

U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ACH		US- 2,265,108	12-02-1941	BERMAN	
ACH		US- 3,584,440	06-15-1971	VIGIL	
ACH		US- 4,019,983	04-26-1977	MANDT	
ACH		US- 4,136,565	01-30-1979	MIGRIN ET AL.	
ACH		US- 4,250,715	02-17-1981	RATLIFF	
ACH		US- 4,282,172	08-04-1981	MCKNIGHT	
ACH		US- 4,308,835	01-05-1982	ABBEY	
ACH		US- 4,367,194	01-04-1983	SCHENEWERK ET AL.	
ACH		US- 4,387,685	06-14-1983	ABBEY	
ACH		US- 4,471,907	09-18-1994	GERSTMANN	
ACH		US- 4,739,153	04-19-1988	RENDEL ET AL.	
ACH		US- 4,767,961	08-30-1988	KOLLER ET AL.	
ACH		US- 4,927,337	05-22-1990	LUSTWERK	
ACH		US- 4,954,321	09-04-1990	JENSEN	
ACH		US- 5,043,104	08-27-1991	STIRLING	
ACH		US- 5,085,809	02-04-1992	STIRLING	
ACH		US- 5,220,940	06-22-1993	PALMER	
ACH		US- 5,410,991	05-02-1995	BEAUDRY ET AL.	
ACH		US- 5,509,463	04-23-1996	CALLAWAY, SR. ET. AL	
ACH		US- 5,666,910	09-16-1997	GEORGE II ET AL	

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**

Allen C. Ho

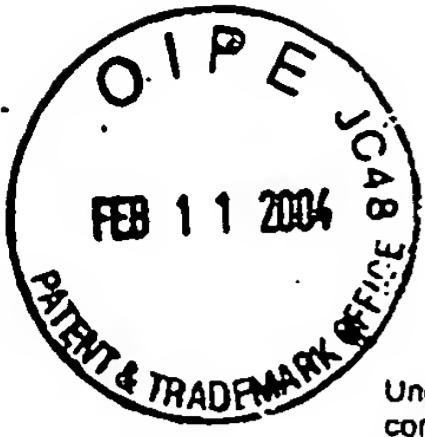
Date Considered

23 Dec 2004

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
Select and Triage 1.05 - 11/2002

Substitute for form 1449AVPTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number	10/631,179
Filing Date	July 31, 2003
First Named Inventor	Joseph H. McCarthy, Jr.
Art Unit	2882
Examiner Name	
Attorney Docket Number	NCI 010 P2

Examiner Signature	Allen C. Ho	Date Considered	23 Dec. 2004
-----------------------	-------------	--------------------	--------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08B (10-01)

Approved for use through 10/31/2002, OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
leads to a collection of information, unless it contains a valid GPO

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 3

<i>Complete if Known</i>	
Application Number	10/631,179
Filing Date	July 31, 2003
First Named Inventor	Joseph H. McCarthy, Jr.
Group Art Unit	2882
Examiner Name	
Attorney Docket Number	NCI 010 P2

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
ACH		W. E. Anderson Duotech® Pressure Switches/Flotech® Pressure Switches/Midwest Sight Flow Indicators/Conductivity Controls Shoe Testers" Bulletin J-20, ©1997 Dwyer Instruments, Inc. printed in USA 6/97, Dwyer Instruments, Inc. 102 Highway 212, P.O. Box 373, Michigan City, IN 46361.	
ACH		"QuikPiks Gems Stock Products Catalog," Gems™ Sensors Catalog No. 600, pages 32 - 33 Gems Sensors, Inc., One Cowles Road, Plainville, CT 06062-1198 USA.	
ACH		"Lytron™ 1997 Catalog Total Thermal Solutions™," pages 12 - 15 and 26 - 29, Lytron, Inc 55 Dragon Court, Woburn, MA 01801 USA.	
ACH		"Product Guide," pages 1 and 14, 2/97, Comair Rotron, 2675 Customhouse Court, San Ysidro, CA 92173,.	
ACH		GE Handout, "The Heart of the System Global Tube & Detector, Electric Avenue Manufacturing Operations," pages 1 - 9.	
ACH		Toboldt, William. "Chapter 15 Engine Cooling Systems," Automotive Encyclopedia, pages 189 - 207, Goodheart Willcox Co. 1995.	

Examiner Signature	Allen C. Ho	Date Considered	23 Dec. 2004
-----------------------	-------------	--------------------	--------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.